



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-06-12-07 Date: 09-05-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout
and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR,
Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-
560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-05-23
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING,
Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste,
Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6
Date of test : 06-05-23
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.55	-
2	Finess by Air permeablity method (m ² /kg.Min)	287.5	225m ² /kg, Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
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Page 1/1
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-06-12-07 Date: 03-06-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-05-23
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 06-05-23
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Page 1/1
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-06-12-07 Date: 09-05-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 05-05-23
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-05-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	320	320	2.1	97.9	90-100
3	20 mm	7435	7755	51.7	48.3	30-70
4	10 mm	5148	12903	86.0	14.0	10-35
5	4.75 mm	1721	14624	97.5	2.5	0-5
6	Pan	376	15000	100.0	0	---

Page 1/2

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-06-12-07

Date: 09-05-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	—
4	Bulk Density(Loose) (Kg/l)	1.38	—
5	Bulk Density(Compacted) (Kg/l)	1.42	—
6	Water Absorption(%)	0.25	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-06-12-07 Date: 08-05-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-05-23
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-05-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	260	260	5.2	94.8	90-100
3	10 mm	2785	3045	60.9	39.1	25-55
4	4.75 mm	1550	4595	91.9	8.1	0-10
5	Pan	405	5000	100	0	—

Page 1/2

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2023-06-12-07

Date: 08-05-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Page 2/2

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TEST RESULTS OF STEEL

Lab ID : CP-2023-06-12-07 Date: 06-05-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-05-23
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test : 05-05-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Page 1/1
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-06-12-07 Date: 08-05-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-05-23
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 05-05-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	30	30	3.0	97.0	90-100	90-100	90-100	95-100
3	2.36 mm	60	90	9.0	91.0	60-95	75-100	85-100	95-100
4	1.18 mm	185	275	27.5	72.5	30-70	55-90	75-100	90-100
5	600 micron	200	475	47.5	52.5	15-34	35-59	60-79	80-100
6	300 micron	234	709	70.9	29.1	5-20	8-30	12-40	15-50
7	150 micron	211	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Page 1/2



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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-06-12-07

Date: 08-05-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Page 2/2

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-06-12-07 Date: 17-05-23

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/174/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-05-23

Sample Type /Size : Precast Cover Slab -100mm thickness

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 13/05/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.51	100.49	1.117	4718	81.5	17.3	16.1	20.1
2	Cover Slab-2	77.48	100.51	1.120	4714	82.5	17.5	16.3	20.3
3	Cover Slab-3	77.50	100.48	1.119	4716	82.1	17.4	16.2	20.2

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Page 1/1
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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-06-12-07 Date: 17-05-23

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/174/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-05-23

Sample Type /Size : Precast Cover Slab -230mm thickness

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 13/05/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.49	230.48	2.819	4715	82.5	17.5	16.3	20.3
2	Cover Slab-2	77.51	230.49	2.817	4718	81.9	17.4	16.1	20.2
3	Cover Slab-3	77.48	230.51	2.820	4714	82.8	17.6	16.3	20.4

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2023-06-12-07 Date: 09-05-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-05-23
Sample Type/Size : Solid concrete blocks size (400X150X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 05-05-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	405	151	202	12353	21.287	1723.1	1753.4	Not less than 1800Kg/m ³
2	403	151	202	12292	22.266	1811.4		
3	405	152	201	12374	21.353	1725.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

[Signature]

Page 1/3

[Signature]
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore





Lab ID : CP-2023-06-12-07

Date: 09-05-23

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	150	202	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	401	152	200	
3	401	152	199	
4	401	151	202	
5	401	150	200	
6	403	150	199	
7	401	151	203	
8	400	151	201	
9	399	152	202	
10	403	151	201	
11	403	151	202	
12	402	152	200	
13	401	152	200	
14	402	150	200	
15	403	150	199	
16	403	153	203	
17	399	151	203	
18	401	151	202	
19	402	152	200	
20	402	151	199	
Average of 20	401	151	201	

Page 2/3

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore





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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID : CP-2023-06-12-07

Date: 09-05-23

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	150	60036	268.8	4.5	4.3
2	401	152	61087	260.9	4.3	
3	401	152	61115	269.7	4.4	
4	401	151	60589	267.4	4.4	
5	401	150	60270	251.8	4.2	
6	403	150	60278	275.3	4.6	
7	401	151	60693	251.0	4.1	
8	400	151	60355	242.0	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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R RUDRAPRASAD
Authorized Signatory
Technical Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-12-07 Date: 18/05/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/174/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	149.65 X 150.87 X 151.18	22578	8.872	421.3	18.7	18.4
2	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	149.79 X 150.84 X 151.34	22594	8.256	420.7	18.6	
3	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	149.52 X 150.52 X 150.67	22506	8.995	406.7	18.1	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Page 1/1
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R. Rudraprasad
Authorized Signatory
Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-12-07 Date: 08/06/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-05-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 08/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	151.47 X	22658	8.446	536.8	23.7	23.2
					149.59 X					
					151.84					
2	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	149.07 X	22587	8.302	506.8	22.4	
					151.52 X					
					149.77					
3	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	149.85 X	22585	8.131	530.2	23.5	
					150.72 X					
					151.66					

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Page 1/1

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-12-07 Date: 18/05/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-05-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 18/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	150.84 X 149.52 X 151.08	22553	8.749	422.6	18.7	18.7
2	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	151.46 X 151.12 X 149.45	22889	8.260	430.4	18.8	
3	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	149.32 X 151.04 X 150.24	22553	8.994	416.1	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-12-07 Date: 08/06/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/174/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	150.27 X 150.42 X 150.26	22604	8.870	528.5	23.4	23.1
2	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	149.24 X 149.61 X 151.57	22328	8.520	491.8	22.0	
3	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	151.53 X 151.11 X 150.31	22898	8.321	547.6	23.9	

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Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/174/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	151.43 X 151.62 X 150.19	22959	8.321	414.2	18.0	18.2
2	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	150.43 X 151.53 X 150.12	22795	8.873	418.0	18.3	
3	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	151.79 X 149.04 X 151.87	22623	8.863	412.8	18.2	

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Kodigehalli Sub Division
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Page 1/1

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Customer's Reference : BBMP/EE/BTP/WO/174/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	151.64 X 151.33 X 150.81	22948	8.253	545.5	23.8	23.3
2	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	151.23 X 150.02 X 149.35	22687	8.473	509.1	22.4	
3	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	151.78 X 151.47 X 149.11	22989	8.459	545.9	23.7	

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Page 1/1

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Lab ID : CP-2023-06-12-07 Date: 18/05/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-05-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 18/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	151.58 X 150.18 X 151.97	22764	8.785	410.4	18.0	18.6
2	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	150.75 X 150.41 X 151.59	22674	8.741	423.9	18.7	
3	Drain Bottom Raft Concrete	M20	11/05/2023	18/05/2023	151.83 X 149.73 X 151.84	22734	8.384	430.8	18.9	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore
Page 1/1
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R. Rudraprasad
Authorized Signatory
Technical Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-12-07
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-05-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 08/06/2023

Date: 08/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	149.26 X 151.23 X 150.04	22573	8.884	534.8	23.7	23.5
2	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	150.09 X 151.84 X 150.34	22789	8.604	521.6	22.9	
3	Drain Bottom Raft Concrete	M20	11/05/2023	08/06/2023	151.06 X 150.84 X 150.01	22787	8.210	546.6	24.0	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-12-07 Date: 22/05/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/174/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-23

Customer ID : Drain Side wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	151.00 X 150.54 X 151.85	22731	8.333	421.8	18.6	18.5
2	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	151.28 X 149.23 X 151.41	22576	8.789	408.6	18.1	
3	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	150.33 X 151.38 X 151.44	22757	8.218	431.6	19.0	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Page 1/1
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-12-07 Date: 12/06/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102,1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-05-23
Customer ID : Drain Side wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 12/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	150.66 X 150.56 X 149.88	22683	8.534	525.7	23.2	23.0
2	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	149.02 X 150.74 X 149.96	22463	8.755	512.4	22.8	
3	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	149.09 X 150.90 X 150.06	22499	8.495	521.1	23.2	

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Lab ID : CP-2023-06-12-07 Date: 22/05/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains in cross roads of Bhadrappa Layout and surrounding areas in ward no.12 -Kodigehalli
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-05-23
Customer ID : Drain Side wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 22/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	151.99 X 149.48 X 150.12	22720	8.737	413.1	18.2	18.3
2	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	150.13 X 151.45 X 150.83	22737	8.413	416.4	18.3	
3	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	150.64 X 151.47 X 150.61	22817	8.133	416.8	18.3	

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Page 1/1

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Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-05-23
Customer ID : Drain Side wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 12/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	150.26 X 150.58 X 150.97	22626	8.997	530.2	23.4	23.1
2	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	149.87 X 151.58 X 150.36	22718	8.415	513.4	22.6	
3	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	150.21 X 149.15 X 150.39	22403	8.545	521.2	23.3	

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Page 1/1
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Customer's Reference : BBMP/EE/BTP/WO/174/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-23

Customer ID : Drain Side wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	151.77 X 150.17 X 150.65	22791	8.123	411.4	18.0	18.3
2	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	149.57 X 151.82 X 150.87	22707	8.744	412.6	18.2	
3	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	149.98 X 150.09 X 151.42	22512	8.349	422.0	18.7	

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Customer's Reference : BBMP/EE/BTP/WO/174/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-05-23
Customer ID : Drain Side wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 12/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	149.86 X 151.70 X 149.37	22733	8.116	531.8	23.4	23.0
2	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	149.49 X 151.78 X 150.21	22690	8.933	507.6	22.4	
3	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	149.07 X 149.48 X 151.34	22282	8.938	520.5	23.4	

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Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-05-23
Customer ID : Drain Side wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 22/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	150.87 X 149.78 X 149.04	22598	8.727	422.5	18.7	18.6
2	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	149.24 X 151.23 X 149.34	22569	8.126	411.8	18.2	
3	Drain Side wall Concrete	M20	15/05/2023	22/05/2023	149.01 X 150.44 X 150.96	22417	8.962	423.9	18.9	

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Customer's Reference : BBMP/EE/BTP/WO/174/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-23

Customer ID : Drain Side wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	151.81 X 150.60 X 149.05	22862	8.702	540.2	23.6	23.1
2	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	151.79 X 149.56 X 150.23	22701	8.531	499.4	22.0	
3	Drain Side wall Concrete	M20	15/05/2023	12/06/2023	151.54 X 150.80 X 149.32	22853	8.921	542.2	23.7	

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